

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 1, line 13 as follows:

Recently, connecting a printing apparatus to an AV (Audio Visual) device such as a digital camera and a digital broadcast receiver (STB: Set Top Box) or the like in order to directly print ~~directly~~ a video that is shot or received by an AV device ~~have~~ has been attempted.

Please amend the paragraph beginning on page 2, line 6 as follows:

Fig. 1 is a sequence diagram showing an example of a communication procedure when an AV device such as a digital camera ~~prints~~ outputs a picture ~~out~~ to a printing apparatus according to the existing AV/C Printer Subunit. Here, a communication sequence for outputting a print object such as a picture stored in a controller 900 connected via the IEEE 1394 bus to a printer unit (a printing apparatus) 910 as well as commands and responses then communicated are shown.

Please amend the paragraph beginning on page 3, line 24 as follows:

Therefore, in order to realize a system in which the same printing result can be obtained at any time when printing data described in a format such as XHTML-Print or the like using whichever type of AV device, it is required to apply a pull print protocol with which a printing apparatus performs generating processing of print picture data while sequentially requesting necessary print objects ~~to~~ from an AV device.

Please amend the paragraph beginning on page 7, line 28 to page 8, line 11 as

follows:

The following describes in detail an embodiment according to the present invention with reference to the attached diagrams. In the present embodiment, a broadcast wave is adopted for a communication between a broadcast station and a print data providing apparatus whereas an IEEE1394 is adopted as a communication media and an IEEE1394 AV/C Printer Subunit, as a print protocol in a communication between the print data providing apparatus and a printing apparatus. The present invention, however, is not limited to these mentioned above and the Internet, for instance, may be adopted for a communication between the broadcast station and the print data providing apparatus or an HTTP (Hyper Text Transfer Protocol) may be adopted as a data transmission protocol or a Print Basic Service Protocol of UPnP (Universal Plug and Play) and a Basic Printing Profile of Bluetooth may be adopted as a print protocol between the print data providing apparatus and the printing apparatus.

Please amend the paragraph beginning on page 9, line 28 to page 10, line 19 as

follows:

The print processing unit 130 extracts a print document from the broadcast data extracted by the TS decoder 121 and outputs it directly to the memory 124 when the extracted print document consists of archive data, a stand-alone file or a plurality of files described in identical format. However, when the extracted print document is described with the HTML and the XHTML-Print consisting of a plurality of files formatted differently, the print processing unit 130 archives the files so that the Top Page file to be firstly read in by the printing apparatus 140 may

come at the head of the archive data and ~~output~~ outputs the archived file to the memory 124. The archive determination unit 131 determines whether or not the data files to be referred to in a file such as the HTML and the XHTML-Print ~~are~~ have been archived beforehand into a single file when the print document in the memory 124 is described with the HTML and the XHTML-Print. If they are not thus archived, the archive determination unit 131 transmits to the archiver 132 the files such as the HTML and the XHTML-Print containing these picture data files and has the archiver 132 archive them into a single file. In other cases, the print document is not transmitted to the archiver 132 but outputted to the memory 124 using a normal method. The archiver 132 archives a set of files differently formatted composing the print document obtained from the archive determination unit 131 into a single file using a format such as TAR (Tape Archival and Retrieval format), MIME (Multipurpose Internet Mail Extension), ZIP and LZH.

Please amend the paragraph beginning on page 12, line 21 as follows:

Fig. 4 is a diagram showing a system model 10 that is a logical structure of the print system 100 shown in Fig. 2. This system model 10 includes a controller 11, an HDD unit 12 and a printer unit 13 connected by the IEEE1394. The basic structure is ~~as the~~ the same as the prior system model defined by the IEEE1394 AV/C Printer Subunit, ~~however,~~ but is characterized by the contents of the parameters of the AV/C Printer Subunit Control command "CAPTURE", a command for instructing a push printing, and a format of the data, accompanying the command, to be push transmitted from the HDD unit 12 to the printer unit 13.

Please amend the paragraph beginning on page 18, line 7 as follows:

A compressed archive format such as a ZIP format and a LZH format may be used as an archive format other than the formats already mentioned above. In this case, CPU resource is necessary for compression and expansion processing, however, the amount of data transmission can be reduced. The execution of Step S210 in Fig. 7 shall be carried out basically following the instructions from the controller 11. The instructing method is not particularly limited, and the controller 11 may instruct the processing internally or perform the processing on its own when the controller 11 and the HDD unit 12 are present in the same apparatus. When the controller 11 and the HDD unit 12 are presented as independent apparatuses and are connected via a network, there is a need to set up separately a new protocol which instructs the HDD unit 12 to archive a print document into archive formatted data (Step S210 of Fig. 7). This step can be abbreviated when the print document is archive formatted from the beginning; however, it is necessary for the controller 11 to know that the print document is archive formatted before pursuing the subsequent steps by setting up a means for confirming the format of the print document.

Please amend the paragraph beginning on page 27, line 19 as follows:

In the above-mentioned embodiment, it is explained that the print processing unit 130 archives the print document described with the XHTML-Print or the like into single data, however, they may be archived into one or more than one files. In the case in which the print document is archived into more than one ~~files~~ file, for example, the files can be grouped by each data type such as a Top Page and a text file group or a Top Page and a picture file group.